

FIG. 1 and FIG. 2 are schematic diagrams of the structure of the 5' and 3' LTRs of the HIV-1 genome. The 5' LTR is shown in FIG. 1 and the 3' LTR is shown in FIG. 2. The 5' LTR is composed of the 5' LTR, the 5' UTR, the 5' coding region, the 5' splice site, the 5' poly(A) signal, and the 5' poly(A) tail. The 3' LTR is composed of the 3' LTR, the 3' UTR, the 3' coding region, the 3' splice site, the 3' poly(A) signal, and the 3' poly(A) tail.

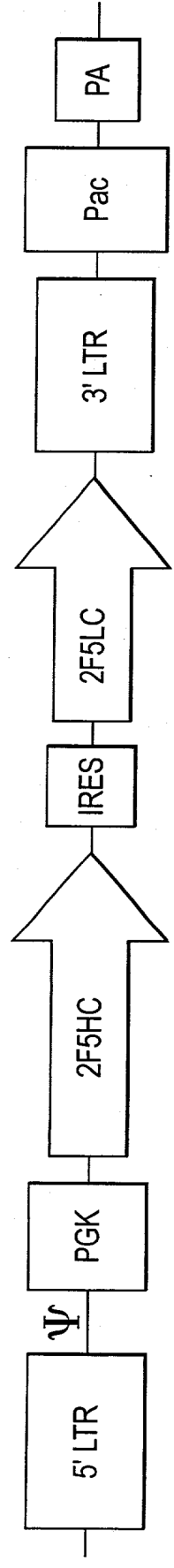


FIG. 1

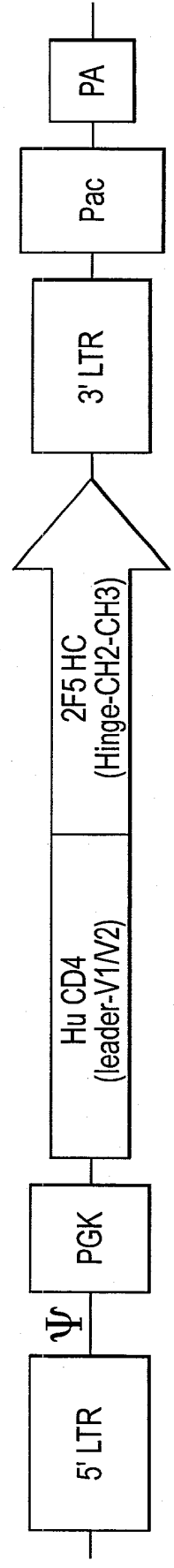


FIG. 2

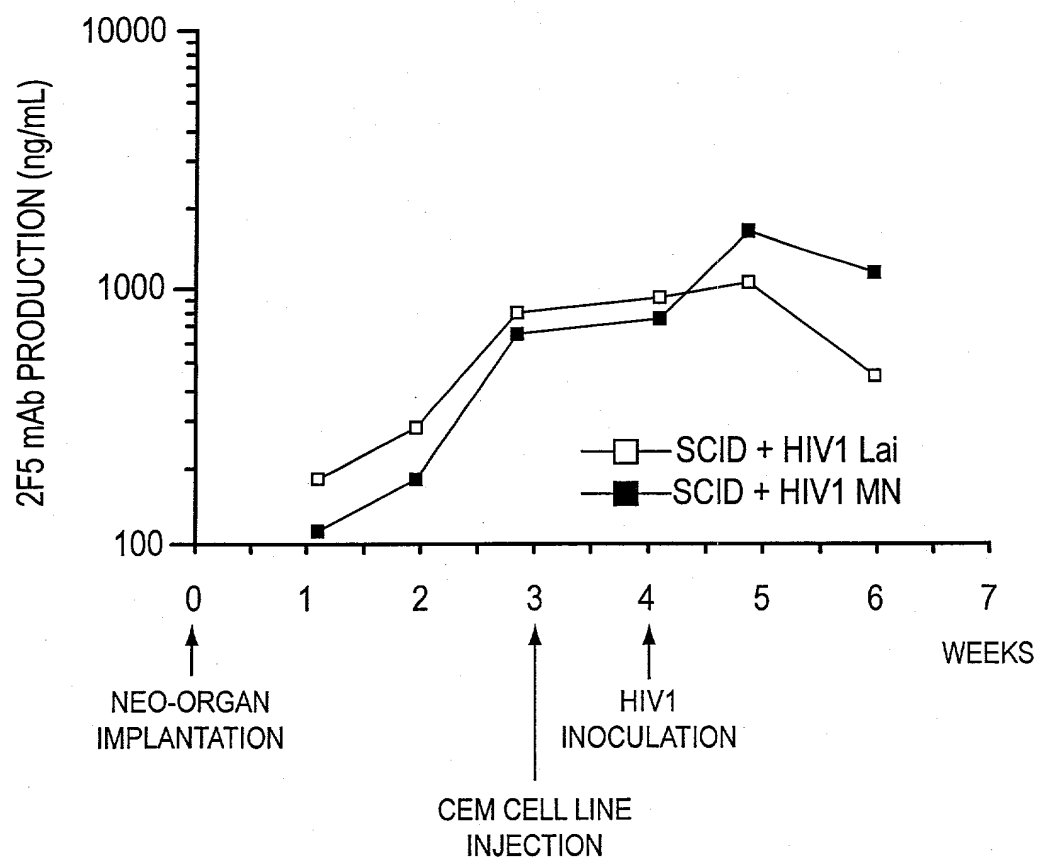


FIG. 3

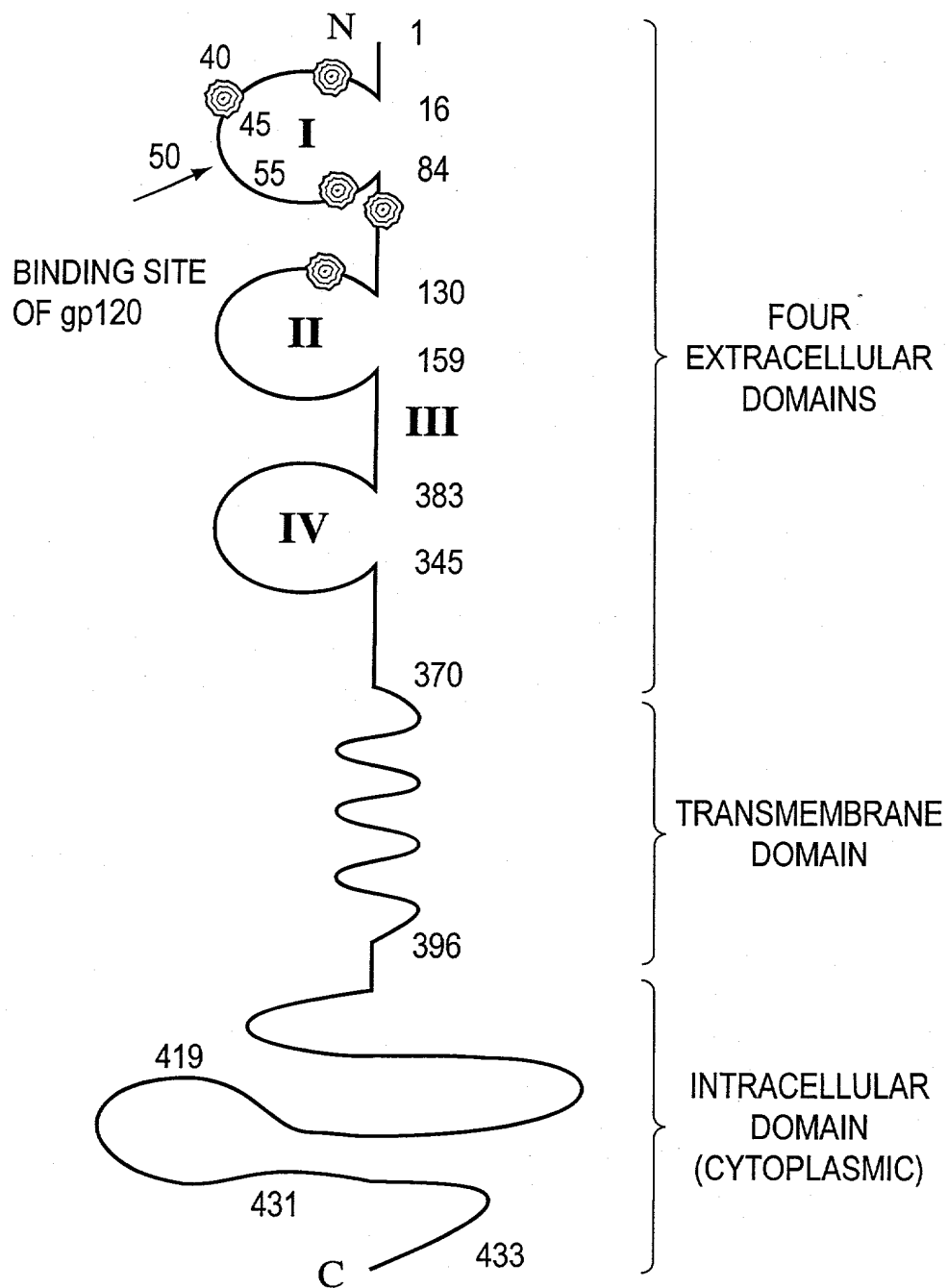


FIG. 4

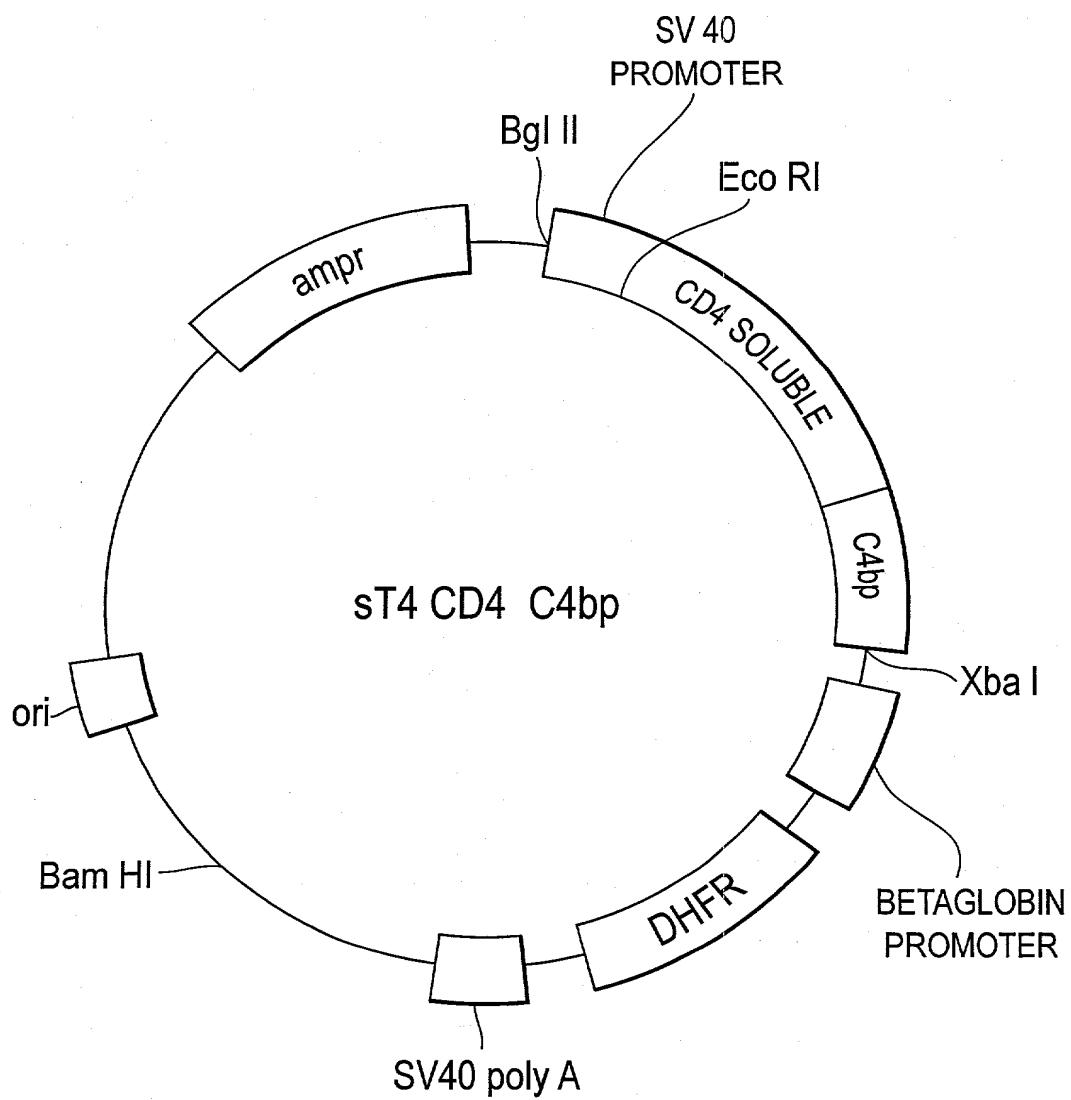


FIG. 5

FIG. 6 is a line graph showing the viral load (RNA HIV1 copies/ml) over time (days) for various treatment groups. The y-axis is logarithmic, ranging from 0.1 to 1,000,000. The x-axis is linear, ranging from 0 to 12 days. The groups are: CONTROLS, sCD4-IgG, 2F5, and 2F5 + sCD4-IgG. The viral load decreases over time for all groups, with the 2F5 + sCD4-IgG group showing the lowest viral load at day 10.

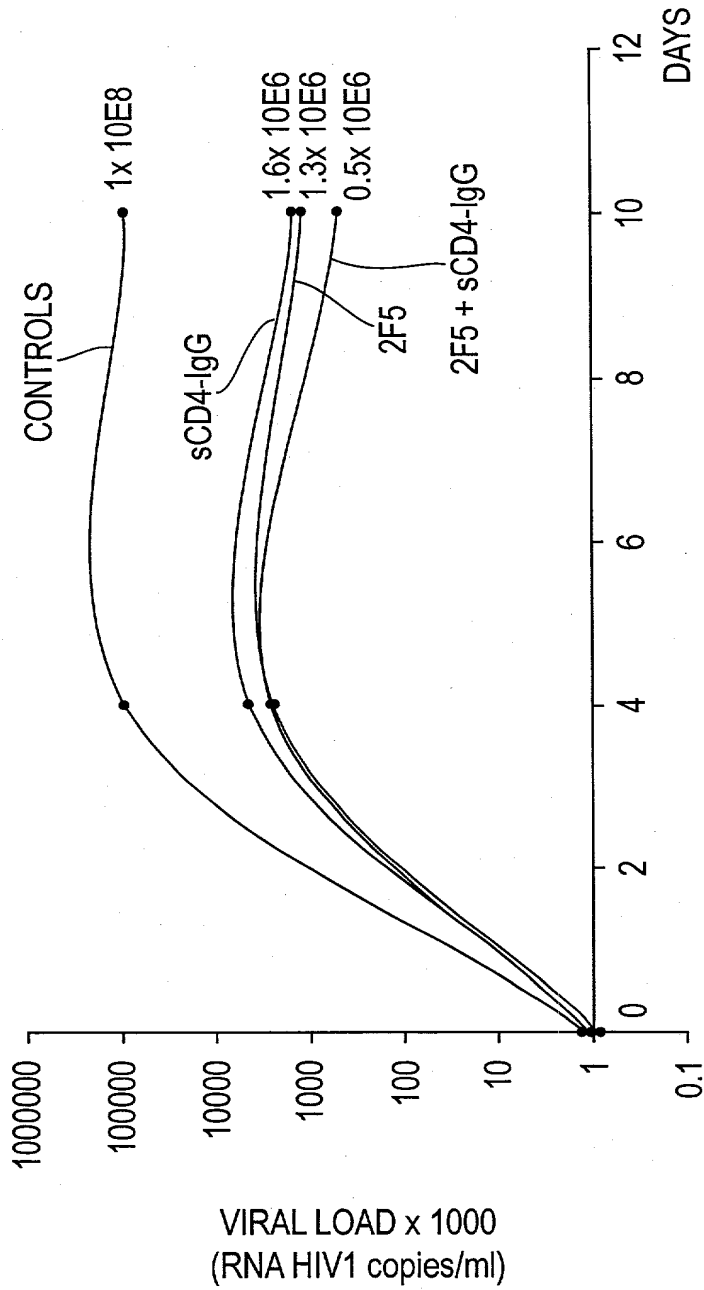


FIG. 6

UNITED STATES PATENT AND TRADEMARK OFFICE
DOCUMENT CLASSIFICATION BARCODE SHEET



Oath/Declaration, Small Entity, and Power of Attorney

8

APPLICATION FOR UNITED STATES PATENT DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:
Gene therapy using anti-gp41 antibody and CD4 immunoadhesin

described and claimed in the specification:

Check one

*a. ☐ attached hereto.

b. ☐ filed on _____ as Application No. _____ and amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

Under Title 35, U.S. Code §119, the priority benefits of the following foreign application(s) and/or United States provisional application(s) filed by me or my legal representatives or assigns within one year prior to this application are hereby claimed:

The following application(s) for patent or inventor's certificate on this invention were filed in countries foreign to the United States of America either (a) more than one year prior to this application, or (b) before the filing date of the above-named foreign priority application(s) and/or United States provisional application(s):

I hereby appoint the following as my attorneys of record with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office:

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ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, P.O. BOX 19928, ALEXANDRIA, VIRGINIA 22320, TELEPHONE (703) 836-6400.

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Family Name

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22

2002

Month

Day

Year

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**Note to Inventor: Please sign name exactly as it appears above and insert actual date of signing.

IF THERE IS MORE THAN ONE INVENTOR USE PAGE 2 AND PLACE AN "X" HERE X

PAGE 2 OF U.S.A. DECLARATION FORM
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****Note to Inventors: Please sign name exactly as it appears and insert the actual date of signing.**
This form may be executed only when attached to the first page of the Declaration and Power of Attorney form of the application to which it pertains.